

From: [Schofield, Susan](#)
To: [Zeno, Denise](#)
Subject: FW: Cabo Rojo - FLUTe ports in bedrock wells
Date: Monday, January 13, 2014 8:21:06 AM
Attachments: [EPA approval of FLUTe ports 9-23-2013.txt](#)
[Proposed Multiport Table rev 9-26-2013 modified Pozo Es ports.xls](#)
[Wireline Summary Detections Only 8-28-2013.xls](#)

Denise,

Katy asked the question about the FLUTe intervals when she returned from maternity leave in mid-December. I sent you this information then.

I will attach the wireline groundwater results. We have not yet plotted the wireline results alongside the geophysical results.

The FLUTe installation starts today. Hopefully the 6.4 earthquake we had last night won't impact anything on the south side of the island!

Susan

From: Schofield, Susan
Sent: Tuesday, December 17, 2013 8:43 AM
To: 'Zeno, Denise'; Mishkin, Katherine (Mishkin.Katherine@epa.gov)
Subject: RE: Cabo Rojo - FLUTe ports in bedrock wells

Buenos días,

I will attach the emails where the port intervals were discussed and approved by EPA. Diana Cutt reviewed the port recommendations.

I will also attach a spreadsheet with revised port intervals – FLUTe recommended some minor changes to the intervals for Pozo Escuela based on the limitations of their equipment and the need to a bit more space between intervals than we had allowed between a few of the ports. The revised port intervals were based on the caliper logs from the wells – we need to make sure the borehole is not washed out and widened in the locations of the port packers that seal off the intervals.

The FLUTes will arrive in Puerto Rico this morning and we are expecting delivery this afternoon at the site. José Reyes will be at the site to direct the driver to the storage location. The FLUTe systems are scheduled to be installed the week of January 13.

Welcome back Katy and I hope all is well with you and your new baby!

Best,

Susan

From: Zeno, Denise [<mailto:Zeno.Denise@epa.gov>]
Sent: Monday, December 16, 2013 5:24 PM
To: Schofield, Susan
Subject: FW: Cabo Rojo - FLUTe ports in bedrock wells

From: Mishkin, Katherine
Sent: Monday, December 16, 2013 3:47 PM
To: Zeno, Denise; Hauptman, Mel
Subject: RE: Cabo Rojo - FLUTe ports in bedrock wells

Hi Denise,

I just returned from maternity leave last week. Based on the wireline sampling, it doesn't look like they found any contaminants of significant concern, with the exception of 1,1-DCE. Since this was sent out in September, I was wondering if you had another geologist review this in my absence so

that CDM could move forward with the design of the FLUTe liners. If so, could you send me their recommendations to I can get up to date? Thanks!

Katie

From: Zeno, Denise

Sent: Monday, September 16, 2013 2:45 PM

To: Mishkin, Katherine; Hauptman, Mel

Subject: FW: Cabo Rojo - FLUTe ports in bedrock wells

For your review and feedback!

thanks

From: Schofield, Susan [<mailto:SchofieldSE@cdmsmith.com>]

Sent: Monday, September 16, 2013 1:25 PM

To: Zeno, Denise

Cc: Delano, Frances

Subject: Cabo Rojo - FLUTe ports in bedrock wells

Buenas tardes Denise,

I will attach several files with results from the geophysical testing and wireline sampling at some of the wells at Cabo Rojo, including a spreadsheet that suggests port intervals for 2 wells – MW-9R and also Pozo Escuela, which we would like to convert into a multiport monitoring well. The geophysical logging results are attached for MW-9R, Pozo Escuela and Ana Maria. The suggested port intervals are based on the geophysical results (fracture zones and flow zones) and the wireline sample results.

As soon as EPA approves the port intervals, we will place the order with FLUTe and install the equipment in the wells as soon as the components are built and shipped to Puerto Rico. I am available all week if you want to discuss any of the attached data.

Best,

Susan

Susan E. Schofield, P.G.

CDM Smith

1225 Ponce de Leon Avenue

VIG Tower, Suite 603

San Juan, PR 00907

schofieldse@CDMSmith.com

787-722-5428

203-645-2549 (mobile)